PROJECT REPORT

ON

Crypto Price Fetcher

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MASTER IN COMPUTER APPLICATION

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Progressive Education Society's
Modern College of Engineering, Pune- 411005
MCA Department

CERTIFICATE

This is to certify that **Mr. Swarupkumar Sharma, Mr. Manjeet Singh, Mr. Rajat Bhargav and Ms. Madhumita Sarkar,** of Master in Computer Application have successfully completed the Project Based Learning work titled '**Crypto Price Fetcher**' during the academic year 2021-22.This report is submitted as partial fulfillment of the requirement of the said subject of Savitribai Phule Pune University.

Dr. Mrs. K. R. Joshi	**Dr.Pradnya Muley**	**Prof. Rama Bansode**
Principal	**Head of Department**	**Project Guide**

ACKNOWLEDGEMENT

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for their support and cooperation.

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Finally I would like to thank each and every one who was directly or indirectly involved in this project.

Sign of students

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CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION OF PROJECT

Indian crypto traders and builders are still hopeful about cryptocurrencies in spite of the vulnerabilities in guidelines with respect to cryptocurrencies. This is on the grounds that crypto is yet another innovation and it will require an investment to make regulations in regards to crypto.

According to a recent survey, India is the fastest growing cryptocurrency market in the world. As per a new study, India is the quickest developing cryptocurrency market in the world. It has developed at a dramatic rate throughout recent years, and its development rate has been quicker than that of some other countries. Experts predict that India will play a major role in the future of cryptocurrency if it forges ahead with this direction.

The fate of cryptocurrency in India is looking brilliant, because of the country's dynamic community local area and its decision-making government. The Indian Government is an active player. The Indian government is currently formulating a policy on Web 3.0. To be a huge player in the world wide Web 3 economy, it should take part in the worldwide strategy improvement and adjust its strategies to this quick world. Up to that point, Indian web3 startups should battle with a generally safe administrative climate.

Indian tech ability is ready to worldwide assume a significant part in the development of this industry. The Indian tech area has been encountering remarkable development over the course of the last 10 years, and it keeps on drawing in top ability from around the world.

The Indian IT area utilizes over 4.4 million individuals, with 80% of them being computer programmers, and contributed US$180 billion (or 7% of GDP) in spends during 2020.

These engineers are very much familiar with both conventional programming advancement and arising innovations, for example, blockchain, AI, IoT, and VR/AR. With additional training and experience through openness to these new advancements, they will be very much positioned to possess vital jobs in the thriving web3 economy around the world.

The Objectives of Crypto Price Fetcher are as follows:-

1. Provides them with a huge selection of crypto currencies (up to 50).

2. Enables them to easily search for, find the items they want.

3. Enables them to find items and add symbol's.

4. Enables them to help set (and thereby minimize) the price of the items they wish to buy (e.g., via promotions).

5. Makes buying more convenient by fetching accurate prices.

• Available anytime (i.e., 24 hours a day and 7 days a week).

• Available anywhere that the buyers have access to the Internet (e.g., at home, at work, and while traveling).

1.2 NEED FOR SYSTEM

Useful for trading of crypto currencies or we can say digital currency
It is helpful for the investors to make decisions by showing number of different digital currencies price in a list form
One can compare different coin's listed and can make the best deal of the current time
Very useful for :- Investors, Crypto trends follower's, Crypto Miner's

1.3 SCOPE OF WORK

- ➔ Can fetch digital coins at real time
- ➔ Coin prices are refreshed at every finite time
- ➔ Price can be updated manually with Refresh Button

1.4 OPERATING ENVIRONMENT - HARDWARE AND SOFTWARE

In order to achieve our objective we needed/used the following resources:-
Some Primary or basic resources we used are:-

i. A Computer.
ii. Good Internet.

HARDWARE USED:

RAM: 4GB

Smartphone, Tablets

SOFTWARE USED:

Some of the essential tools for our project are:-

1. API we used -- CoinMarket.
2. Android version > 5.1
3. Volley Android Library
4. The Languages we used for developing our project are

• Java.
• XML.

1.5 DETAILED DESCRIPTION OF TECHNOLOGY USED

Reason of Choosing Java as a backend language for our Android Application

Java - Object Oriented

In Java, everything is an Object. Java can be easily extended since it is based on the Object model.

Platform Independent

Unlike many other programming languages including C and C++, when Java is compiled, it is not compiled into platform specific machine, rather into platform-independent byte code. This byte code is distributed over the web and interpreted by the Virtual Machine (JVM) on whichever platform it is being run on.

Simple

Java is designed to be easy to learn. If you understand the basic concept of OOP Java, it would be easy to master.

Secure

With Java's secure feature it enables to develop virus-free, tamper-free systems. Authentication techniques are based on public-key encryption.

Architecture-neutral

Java compiler generates an architecture-neutral object file format, which

makes the compiled code executable on many processors, with the presence of Java runtime system.

Portable

Being architecture-neutral and having no implementation dependent aspects of the specification makes Java portable. The compiler in Java is written in ANSI C with a clean portability boundary, which is a POSIX subset.

Robust

Java makes an effort to eliminate error-prone situations by emphasizing mainly on compile time error checking and runtime checking.

Multithreaded

With Java's multithreaded feature it is possible to write programs that can perform many tasks simultaneously. This design feature allows the developers to construct interactive applications that can run smoothly.

Interpreted

Java byte code is translated on the fly to native machine instructions and is not stored anywhere. The development process is more rapid and analytical since the linking is an incremental and light-weight process.

High Performance

With the use of Just-In-Time compilers, Java enables high performance.

Distributed

Java is designed for the distributed environment of the internet.

Dynamic

Java is considered to be more dynamic than C or C++ since it is designed to adapt to an evolving environment. Java programs can carry an extensive amount of run-time information that can be used to verify and resolve accesses to objects at run-time

Android

The main features or advantages of XML are given below.

1) XML separates data from HTML

If you need to display dynamic data in your HTML document, it will take a lot of work to edit the HTML each time the data changes.

With XML, data can be stored in separate XML files. This way you can focus on using HTML/CSS for display and layout, and be sure that changes in the underlying data will not require any changes to the HTML.

With a few lines of JavaScript code, you can read an external XML file and update the data content of your web page.

2) XML simplifies data sharing

In the real world, computer systems and databases contain data in incompatible formats.

XML data is stored in plain text format. This provides a software- and hardware-independent way of storing data.

This makes it much easier to create data that can be shared by different applications.

3) XML simplifies data transport

One of the most time-consuming challenges for developers is to exchange

data between incompatible systems over the Internet.

Exchanging data as XML greatly reduces this complexity, since the data can be read by different incompatible applications.

4) XML simplifies Platform change

Upgrading to new systems (hardware or software platforms), is always time consuming. Large amounts of data must be converted and incompatible data is often lost.

XML data is stored in text format. This makes it easier to expand or upgrade to new operating systems, new applications, or new browsers, without losing data.

CHAPTER 2

2.1 PROPOSED SYSTEM

The above scenario is briefly shown in the following steps:

1. The user will be able to see the live value of the crypto coins.
2. Users can refresh the app and get the updated value of the coins.
3. As it is a free API, so it is not able to get the real time price of the coins.

FUTURE ENHANCEMENTS

1. We are going for the paid API giving users better and smooth performance and can get the real time price of the coins on our app.
2. Users are also able to check the details of the coins just by clicking on it like price charts.

3. In future, we are planning to get a partnership with the leading and market dominating crypto app. In our partnership, we are proposing a system where users can see the prices on our app and when they want to buy or sell coins it will automatically land the users to our partnered leading crypto app from there users can do the transactions.

4. We are also planning to add an extra part in our app like news regarding cryptos, all the news in the market regarding crypto.

2.2 OBJECTIVES OF SYSTEM

The primary objective of this project is to make an environment where users can monitor the current value of digital currencies, in addition to information about market capitalization, trading volume, price chart, and other types of data.

Crypto price tracker app should use reliable data and consistently update their data.

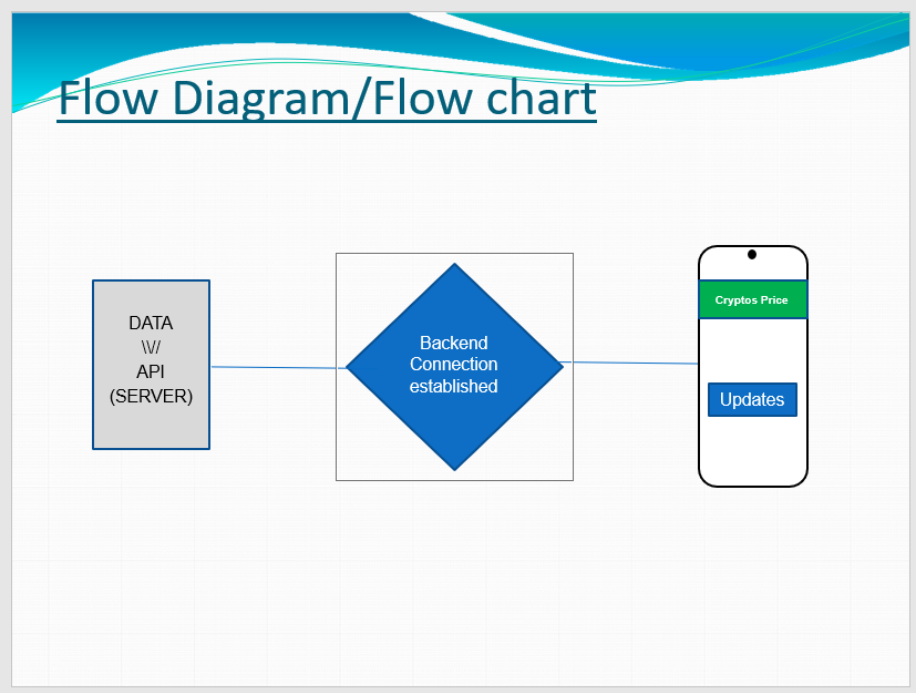
In brief, the objectives of our crypto price tracker app are :

1. To enable the users to make decisions on investment and trading by showing charts and graphs in the app.
2. To ensure the users feel REAL-TIME performance and always on track.
3. To provide user reliable data about the coins.
4. To update the data consistently.

CHAPTER 3

ANALYSIS & DESIGN

3.1 Flow Diagram/Chart



3.2 Module Specification

This app is a user-friendly app.

This app has a search bar in which users can search for the coins they want to invest in.

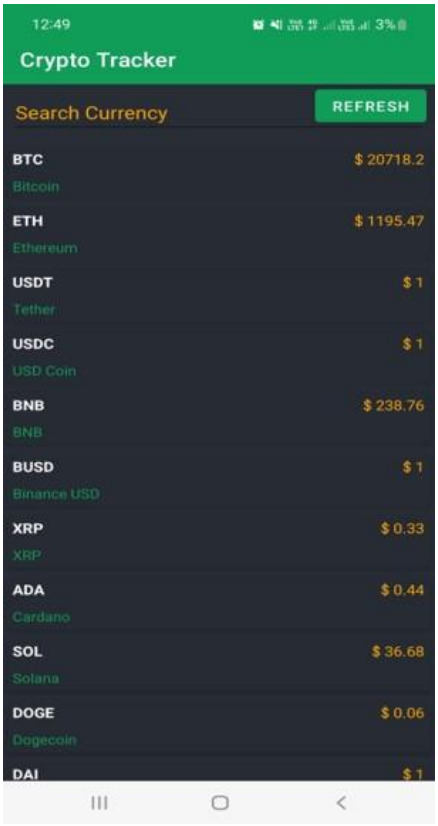
This app also has a refresh button which the user clicks and can get the updated or the real-time price of the coins.

This app uses API to fetch live crypto prices.

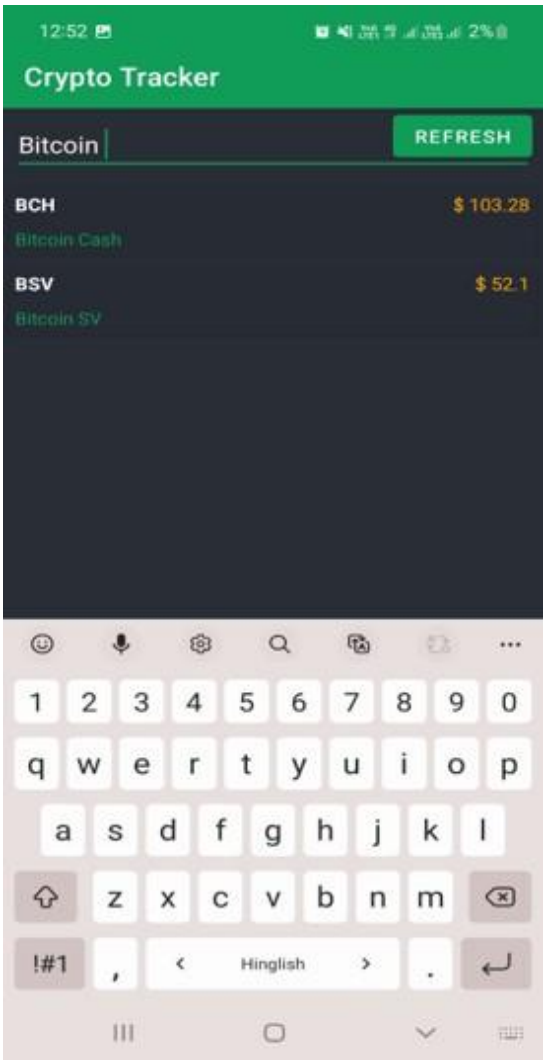
The app is lightweight so it will not take enough space on a device.

3.3 User Interface Design (Screen & reports)

Home screen -



Search Screen -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Bitcoin
REFRESH
BCH
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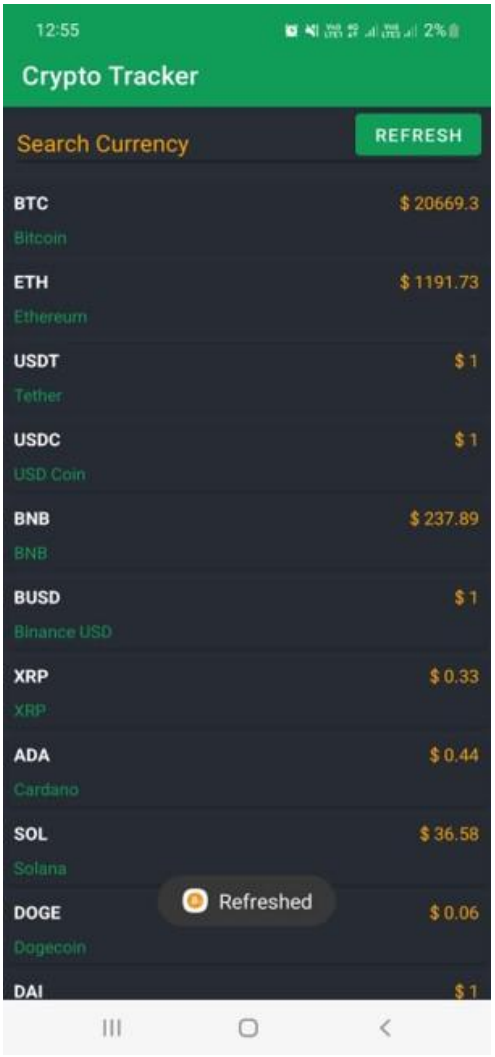
Bitcoin Cash
BSV
$ 52.1
Bitcoin SV
1 2 3 4 5 6 7 8 9 0
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
!#1
Hinglish

Refresh Button



CONCLUSION

This Project report entitled “Crypto Price Fetcher” has come to its conclusion. The new system has been developed with so much care that it is free of errors and at the same time efficient and less time consuming. System is robust. Also provision is provided for future developments in the system. Crypto Price Fetcher are a good place to start if you are just getting into the crypto market. Many platforms are completely risk free to join and consultants can assist you in setting up your properties for auction or advise you in bidding on properties. Watching news can be time-consuming, expensive, and tedious. Also, they may attract lesser bidders. With emerging global markets for properties, it has become possible to see all crypto currency prices

or service via online in any country . Therefore, online real time prices are the most preferred method for investing in crypto currency.

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